magician4

PRE-PROGRAMMED	
UNIVERSAL REMOTE CONTRO	L

A single remote to operate	
your television, video,	
satellite receiver	
& cable TV	2
& Cable 17	
MANDO A DISTANCIA	
UNIVERSAL PREPROGRAMADO (SAT)	
(TV) (AUX)	
Un único mando a	
distancia para poner en	
funcionamiento la televisión, el vídeo,	
el receptor de satélite y	
la TV por cable	_
ia i v por cable	.5
() - (i)	
TELECOMMANDE	
UNIVERSELLE PREPROGRAMMEE	
Une seule télécommande pour	
votre téléviseur, votre magnétoscope,	
votre récepteur satellite	
et votre téléviseur câblé	9
Ct Fore televiscus cuoic	
VORPROGRAMMIERTE	
UNIVERSAL-FERNBEDIENUNG	
Fernbedienung für	
Ihr Fernseh-, Video-, Satellitenempfangs-	
& Kabelfernsehgerät in einem1	3
TELECOMANDO	
UNIVERSALE PREPROGRAMMATO	
ONIVERSALE PREPROGRAMMATO	
Un unico tolocomendo	
Un unico telecomando	
per azionare il vostro	
televisore, videoregistratore,	
ricevitore satellitare e TV via cavo1	7
mag <i>i</i> cian 4	
Device Codes2	21

FUNCTION KEYS

KEY SYMBOL DESCRIPTION (1) POWER ON/OFF X MUTE VOLUME +/--CH+ CHANNEL +/-, C/P +/--/--CHANNEL 1/2 DIGIT MODE A/V A/V SOURCE 1 iINFORMATION/INDEX NORMAL ->-HELP HELP PLAY STOP PAUSE FAST FORWARD REWIND RECORD (red circle) TELETEXT ON TV ON (FROM TEXT TO TV) MIX (TV AND TELETEXT COMBINED) HOLD PAGE (TELETEXT) REVEAL (TELETEXT) **UPDATE (TELETEXT)** TIMER (TELETEXT) TOP OF PAGE (TELETEXT) **BOTTOM OF PAGE (TELETEXT)** FASTEXT RED FASTEXT GREEN FASTEXT YELLOW FASTEXT BLUE MENU STORE CHANNEL/PROGRAMME STORE BACK UP CHANNEL /PROGRAMME STORE

C/P (CHANNEL PROGRAMME)

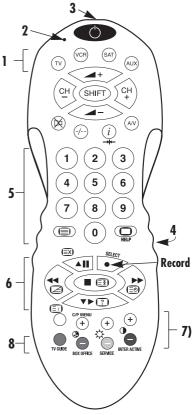
SHIFT KEY FUNCTIONS

C/P MENU

KEY STROKES FUNCTION

SHIFT 1.. Shift 1-9 contain the following groups of functions 10+, 20+, 30+, 40+ ... 11, 12, 13, 14, 15 ...

PLEASE NOTE: You are advised to read the following instructions fully, before attempting to program your Universal Remote Control. The set-up procedure will cancel itself if no keys are pressed for more than 10 seconds in order to protect your code against accidental re-programming, and to conserve battery power. It would therefore be helpful to you to understand the required programming steps, before you carry out the actual set-up procedure.



- 1. DEVICE INDICATOR keys
- 5. Number keypad 6. Text & VCR keypad
- STATUS INDICATOR
 Infra red transmitter
 Battery compartment
- 7. Colour, Brightness, Contrast
- 8. Fastext keys

MAGICIAN - UNIVERSAL REMOTE CONTROL

Congratulations! Your Universal Remote Control is a state-ofthe-art device, which replaces the main functions of several separate remote controls to operate infra-red controlled televisions (TV), videos (VCR), satellite receivers (SAT) & cable boxes (CTV.

Your Universal Remote Control (URC) is pre-programmed in the factory. Simply enter the correct device codes for your equipment and your URC is ready to use. A DEVICE CODE LIST is included in the user's manual.

INSTALLING BATTERIES

Your URC requires 2 fresh AAA-size (LRO3) batteries (alkaline batteries recommended) :-

- 1. Remove the battery cover on the back of your URC.
- Insert the batteries ensuring that the polarity corresponds with the markings in the battery compartment.
- 3. Push the battery cover back in place.

HOW TO SET UP YOUR URC

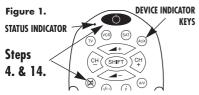
The 4WAY has 4 Device Modes (TV, VCR, SAT & AUX)
Your URC can be set-up either by entering the appropriate
codes from the list of codes supplied or by using the Library
search facility. Instructions for the use of both methods follow.

SETUP BY ENTERING DEVICE CODE

(Note: If you do not touch any keys on your URC within 10 seconds during set-up, your URC will automatically abandon the set-up process and revert to the last entered code. This feature reduces accidental erasure of your codes)

SET UP FOR TV

- 1. Turn on your TV
- Look up the brand name of your TV in the DEVICE CODE LIST (See page 6-8).
- Look up the 3-digit Device Code next to the brand name of your equipment. If there is more than one code listed for your brand, start from the first code with the following instructions:
- Hold down both O POWER and MUTE keys on your URC simultaneously until the STATUS INDICATOR lights up and stays red (about 4 seconds).



- Release the POWER and ➤ MUTE keys. The STATUS indicator should still be lit. If not repeat step 4.
- Press the TV DEVICE INDICATOR key once. The STATUS INDICATOR and the DEVICE INDICATOR should now both be RED.



 Use the number keys on your URC to enter the 3-digit Device Code. If you have entered a valid code, the STATUS INDICATOR will blink once. If you have entered a wrong code, the STATUS INDICATOR will blink twice.



- Try the keys on your URC that correspond to similar keys on your original remote control, especially those you use most. (Note that the URC will abandon the set-up procedure if you do not press any keys on the URC for more than 10 seconds). If your TV works on all or most of the keys on your URC, you have entered a suitable Device Code. Go to step 11. (Note: Your URC will only operate functions controlled by your original remote nor are the supplied codes guaranteed to operate all these functions)
- If the Device Code does not work properly on your TV, press the TV INDICATOR KEY once. The STATUS INDICATOR will blink briefly, then turn RED. The TV INDICATOR should still be RED. (If either of the indicators switch off whilst you are still programming your URC, you should start again from step 3.)
- 10. Repeat steps 7-9 with the other codes listed for your brand of TV until your URC operates most or all of the functions that correspond with the keys on your original remote control.
- 11. Once you have found a suitable code, to store it, press the TV INDICATOR key twice. The TV INDICATOR will blink

- twice and then go out as will the STATUS INDICATOR.
- 12. If none of the TV codes listed for your brand of TV work correctly, select the code that provides the best results. Alternatively, try the Library Search method, which is fully explained further on in these instructions.

SET UP FOR VCR AND SAT

Repeat the same set-up method for your VCR and SAT, but remember to press the VCR or SAT DEVICE INDICATOR key, and select the corresponding Device Code listing.

SET UP FOR AUX KEY

The following instructions describe how to configure the AUX key to act as a 2nd TV/VCR/SAT control.

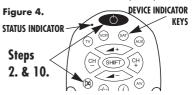
- 13. First use the TV/VCR/SAT set-up method to find the best code for the device you wish to program into the AUX key following steps 1-11.
- 14. Wait until all indicator lights have gone out then hold down the ⊕ POWER and ⋈ MUTE keys together on your URC, until the STATUS INDICATOR lights up and stays red. [About 4 seconds]
- Release the POWER and ➤ MUTE keys. The STATUS indicator should still be lit. If not repeat step 14.
- 16. Press the AUX DEVICE INDICATOR key once.
 (AUX INDICATOR should turn RED)
- Press briefly the TV or VCR or SAT DEVICE INDICATOR corresponding to the type of device you are programming into the AUX key.
- 18. Type in the 3 digit code that you found in step 13.
- 19. Press the AUX key twice to store your code. If you have followed the set-up instructions correctly, the SATUS INDICATOR and DEVICE INDICATOR will turn off. Set up is now complete.

SET-UP BY LIBRARY SEARCH

If you cannot identify a suitable Device Code for your equipment from the Device Code List, you may try our library search method. (For many lesser known brands codes may be present but not listed under that brand.) During the search the selected DEVICE INDICATOR will flash at various speeds. The entire search procedure may take several minutes to complete. The following instructions uses your television as an example for set-up using the Library Search method.

TV SETUP BY LIBRARY SEARCH

- 1. Turn on your TV
- Hold down both O POWER and MUTE keys on your URC simultaneously until the STATUS INDICATOR lights up and stays red (about 4 seconds).
- 3. Release the POWER and ⋈ MUTE keys The STATUS INDICATOR should still be lit. If not repeat step 2.



 Press the TV DEVICE INDICATOR key once. The STATUS INDICATOR and the DEVICE INDICATOR should now both be RED.



To search, aim your URC at your TV.

- 6. Press the POWER key repeatedly for 2 seconds ON and two seconds OFF, until your TV goes into standby mode (i.e. the TV switches OFF). Then continue with step 7. If the TV INDICATOR key flashes twice and then goes out before your TV goes into stanby mode you have reached the end of the library. Return to step 2 and repeat library search one more time.
- 7. Try the number keypad to see if your device switches ON again and the keys work correctly. If your device does not switch ON, press the 🖂 Mute key and then the O Power key to repeat the code so that the Device comes ON. Now try the number keypad. (NOTE: If you

accidentally skipped a code that turned your TV ON or OFF, you can return to the skipped code by pressing the Mute key.)

- 8. If the code you have found does not work correctly, make sure that the TV INDICATOR and STATUS INDICATOR are still red, before you repeat steps 6 and 7 until you find a better code. If the indicator lights have gone out, repeat the set-up procedure from step 2.
- 9. Once you are happy with the code found, press the TV INDICATOR key once to store the code. The STATUS INDICATOR and DEVICE INDICATOR will turn off and set-up is complete.

VCR & SAT SETUP BY LIBRARY SEARCH

Simply repeat the above procedure to search for the Device Codes for your VCR and SAT but instead of the TV DEVICE INDICATOR key press either the VCR or SAT DEVICE INDICATOR key in step 4

AUX SETUP BY LIBRARY SEARCH

10. Follow steps 2 and 3 in TV SETUP BY LIBRARY SEARCH.

- 11. Press the AUX DEVICE INDICATOR key once. (AUX INDICATOR should turn RED)
- 12. To set up a TV on the AUX DEVICE KEY follow steps 4 to 8.
- 13. Once you are happy with the code found, press the AUX INDICATOR key once to store the code. The STATUS INDICATOR and DEVICE INDICATOR will turn off and setup is complete. Your TV will now work when the AUX key is selected.

To operate a VCR or SAT using the AUX key, follow steps 10 to 13 as for TV but instead of the TV DEVICE INDICATOR key press either the VCR or SAT DEVICE INDICATOR key in step 10

OPERATING YOUR URC

Once you have set up your URC, it should operate similarly to your original remote control and perform most or all of the main functions. To operate, just aim it at your equipment, press the appropriate DEVICE INDICATOR key and press the required function key. The DEVICE INDICATOR flashes during signal transmission to confirm that a function key is in operation.

Please Note: The URC can only duplicate functions that are on your original remote control. Any extra keys on the URC which are not on the original will not function.

SHIFT Functions

To operate a secondary function, press SHIFT followed by the corresponding function key. The SHIFT key remains functional for as long as any other key is operated, or until 5 seconds have elapsed after the last key pressed. When the SHIFT key is operated, the STATUS INDICATOR lights up green and the DEVICE INDICATOR red while the SHIFT key is pressed down. The STATUS INDICATOR then stays ON for another 5 seconds. The SHIFT key can be cancelled before

the 5 seconds time-out period by pressing the SHIFT key again.

MAINTENANCE

- 1. Do not expose your URC to dust, strong sunlight, humidity, high temperature or mechanical shock.
- 2. Do not use old and new batteries together as old batteries tend to leak.
- 3. Do not use corrosive or abrasive cleansers on your URC.
- 4. Keep the unit dust free by wiping it with a soft, dry cloth.
- 5. Do not disassemble your URC, it contains no user serviceable parts.

FREQUENTLY ASKED QUESTIONS

- Q. I am unable to program or operate my URC, but the indicator lights on my URC operate correctly.
- Check your A/V device. If the device's mains switch is turned off, your URC can not operate your device.
- A. Check if the batteries are low and replace the batteries.
- A. If several Device Codes are listed under the brand name of your A/V device, try each code one by one until most or all of the keys work correctly.
- Q. The STATUS INDICATOR light does not stay ON when entering set up mode.
- A. Make sure both the POWER and MUTE buttons are pressed simultaneously
- Q. My A/V equipment responds only to some commands.
- A. You may have selected a code for which only some commands work correctly. Try the other codes listed for your brand.
- A. Try the Library Search if you are still unsuccessful.
- Q. Some of my equipment will not work with any of the codes listed.
- A. Make sure that you have selected the correct device
- A. Try the Library Search function as some more recent

Disclaimer: Whilst we have tried to supply a comprehensive library of codes we cannot guarantee that your URC will be fully compatible with all equipment. Some brands, models or functions may not be available in the code library due to differences in operation to your original remote or where the code has not yet been added to the library.

The manufacturer cannot accept any liabilities resulting from incorrect use of this product.

SPECIFICATIONS

Operating system:- Pre-programmed infra-red remote con-

Compatibility:- Operates most brands of infra-red remote controlled TV's, VCRs, Sat.'s, CTV's.

Power requirement: 2 x AAA-size alkaline batteries. Effective range:- 7.65M (25 feet), +/- 25 degrees.

Alkaline battery life:- Normal operation 6 months. Dimensions: 199 (L) x 56 (W) x 24 (H) mm.

Weight without batteries:- 105g

LOW BATTERY LEVEL

If the indicator flashes twice slowly after pressing a key function, the battery level is low & you must fit new batteries. If the batteries are removed, your URC will retain its memory for approximately 10 minutes only.

Customer Care Line—Tel: 0345 573 479 (UK only) Web site: http://www.philex.com/docs/support/index.htm

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BEKO 061 183 239 240 240 240 240 240 240 245 248 249 245 248 249 245 248 249 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 240 2	RAIIR					
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Name	BLAUPUNKT	017 022 024 046	FINLUX			
Section Color Co						
BOOTS O48 BPL O04 BRANDT ELECRON. O27 O32 O72 181 185 ERION VEGA O63 O81 166 172 180 195 FORTRESS O89 CENTURY O42 O52 O63 162 188 O25 O45 O45 O45 O45 O45 O45 O45 O45 O45 O4				196 234 247	JVC	016 101 121 128
BPL 004 BRANDT ELECRON. 027 032 072 181 FORGESTONE 157 FORMENTI-PHOENIX 048 073 102 111 KASUI 048 121 206 KASCHER 235 241 KARCHER 206 216 247 KASCHER 206 216 247	POOTS		FISHER			142 157 169 173
BRANDT ELECRON. 027 032 072 181 185			FORCECTORE		IVAICIII	
BRION VEGA 063 081 166 172 FORTRESS 089 KATHREIN 122 KENDO 042						
BRION VEGA		185	TORMENTI-THOUNIX			
BRUNS 054 063 FUNAL 074 092 KENNEDY 069 077 102 233 BSR 092 108 167 BUSH 004 016 047 121 133 141 142 146 167 178 194 222 224 225 238 CENTURY 042 052 063 162 188 CGE 022 042 052 091 094 123 141 162 167 188 CIHAN 109 CLARIVOX 054 119 124 CONDOR 048 111 CONTEC 016 CONTINENTAL ED. 027 032 072 181 185 CROSELY 042 042 CROSELY 042 042 CROSELY 042 CROSELY 042 042 CROSELY 042 043 040 043 048 043 044 045 066 CROSELY 042 042 043 042 CROSELY 042 CROSELY 042 052 073 181 CROSELY 042 CROSELY 042 053 1061 CROSELY 042 CROSELY 042 053 1061 CROSELY 048 1074 092 CROSELY 048 1074 049 CROSELY 048 100 102 103 CROSELY 048 100 102 118 CROSELY 048 100 102 103 CROSELY 048 100 102 118 CROSELY 048 100 102 103 CROSELY 048 100 102 118 CROSELY 048 100 102 103 CROSE	BRION VEGA		FORTRESS			
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BUSH						069 077 102 235
133 141 142 146						
CENTURY	20011		GEC		KKIESLEK	
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CGE 022 042 052 091 094 123 141 162 167 188 GOODMANS 016 061 100 154 109 124 CONTEL 109 124 CONTINENTAL ED. 027 032 072 181 185 CROSELY 042 042 052 091 094 123 141 162 188 GOODMANS 016 061 100 154 18 143 053 044 045 060 151 151 154 194 201 063 18 143 053 044 045 060 151 151 154 194 201 063 103 118 143 053 044 045 060 163 163 118 143 053 044 045 060 163 163 163 163 163 163 163 163 163 163	CENTURY		GENEXXA	121	LOEWE	087
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CIARIVOX 054 119 124 124 1252 188 124 135 138 138 124 132 136 132 170 235 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138 138			COOMANS		LOGIK	
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CONDOR 048 111 197 184 208 CONTEC 016 GRANADA 016 031 048 061 MELECTRONTC 234 247 088 100 102 103 MAGNADYNE 043 044 045 066 110 118 147 170 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 118 149 063 102 102 102 102 102 102 102 118 149 063 102 102 102 102 102 102 102 102 102 102						088 105 120 126
CONTEC 016 GRANADA 016 031 048 061 M ELECTRONTC 234 247 CONTINENTAL ED. 027 032 072 181 185 110 118 147 170 CROSELY 042 236 237 239 240 167						132 138 158 171
CONTINENTAL ED. 027 032 072 181 088 100 102 103 MAGNADYNE 043 044 045 066 110 118 147 170 063 102 118 149 1167 167 167 167 167 167 167 167 167 16						
185 110 118 147 170 063 102 118 149 CROSELY 042 236 237 239 240 167			GRANADA			
CROSELY 042 236 237 239 240 167					MAUNAUTHE	
	CROSELY					

DEVICE CODES						
BRAND	CODE		CODE	BRAND	CODE	
TV cont	inued	PATHE'MARCONI	027 032 072 181	SAMSUNG	048 074 100 154	
MAGNFON	043 044 048 066	PERDIO	185 100	SANYO	188 194 216 016 039 054 100	
	073 118 234	PHILCO	014 022 042 052	JANTO	115 130 142 188	
MARANTZ	061	200	063 091 102 123		197 200 205 208	
MATSUI	001 047 048 085		141 162 167 188		247	
	092 098 100 130 133 142 149 170	PHILIPS	013 020 047 048	SBR	061 110 156 157	
	178 179 194 224		063 077 087 109	CCUAUD LODENT	191	
	228 231		110 156 157 159 174 187 191 214	SCHAUB LORENZ	088 102 135 138 152 158 161 170	
MAXIMAL	117		216 219 220		197	
McMICHAEL	191	PHOENIX	048 073 102 111	SCHNEIDER	038 048 061 063	
MEMOREX	194		147		067 077 093 102	
METZ	017 049 063 065 068 090 116 168	PHONOLA	020 048 061 077		110 112 124 147	
	243 244 245	DIONICED	110 157 159 187 047 061 072 181		155 157 159 167 187 242	
MINERVA	017 051 078 088	PIONEER	217 226	SEG	043 048	
	116 243 244 245	PRANDONI-PRINCE	042 044 073 118	SEI	001 049 092	
	248 249		170	SELECO	034 038 069 077	
MISTRAL	157	PREMIER	141		093 108 137 170	
MITSUBISHI	011 016 019 047 061 063 103 122	PRINCE	042 044 073 170		235 241 242	
	130 131 142 156	PROLINE Protech	028 047 100 190 061 074	SHARP	016 092 142 205	
	163 182 243 244	PKUIECH	048 061 063 077	SIAREM	213 043 044 063 102	
	245	116	110 156 157 159	JIMILIN	118	
MIVAR	041 044 048 056		187	SICATEL	119	
	070 079 118 154	QUASAR	043 044 066 073	SIEMENS	016 017 021 022	
MULTITECH	043 048 118 188		154		024 046 051 096	
MURPHY NAONIS	003 102 103 170 034 038 069 077	QUELLE	003 022 024 035		111 116 205 243	
NAUNIS	108 170		046 047 048 051		244 245 246 247	
NATIONAL	031 083 102		061 073 076 078 088 089 111 113	SIERA	248 249 048 061 063 077	
NEC	016 176		115 116 130 138	JILKA	110 157 159 187	
NECKERMANN	048 063 105 123		145 146 152 234	SILVER	074	
NE	132 179 188		243 244 245 247	SINGER	043 045 063 102	
NEI NEWTECH	061 124 048	RADIOLA	048 061 063 077	SINUDYNE	001 043 049 063	
NEWTECH	100 121	DADIOMARCILI	110 157 159 187		092 102 149 209	
NOBLIKO	042 043 048 073	RADIOMARELLI	043 044 045 060 063 102 103 149	SONOKO	215 048 061 194	
	078 234		167	SONY	010 016 026 130	
NOGAMATIC	027 032 072 181	RADINETTE	247		203 207 210	
NOW!	185	RANK	146	SOUND WAVE	047 111 162	
NOKIA	088 102 135 138 152 156 158 161	RBM	146	STANDARD	048	
	170 197	REDIFFUSION	057 103 138 170	STERN	034 038 069 077	
NORDMENDE	015 027 032 036	REDIFUSION Rex	102 103 034 038 069 077		108 137 170 235 241 242	
	072 081 129 164	NLA	093 108 137 170	TANDBERG	168	
	181 185 217		235 241 242	TANDY	048 094 100 121	
OCEANIC	102 106 107 114	ROADSTAR	029		189	
ONCEAS	138 048	ROBOTRON	054 063	TASHIKO	016 048 142 191	
OPTONICA	048 189	ROWSONIC	048	TATUNG	200	
ORION	001 049 092 130	RTF Saba	054 063 012 015 023 027	TATUNG	048 100 104 109 118 130 199	
	133 149 178 190	JADA	036 044 063 072	TEC	038 048 167 242	
	194 198 215		075 118 132 177	TELEAVIA	027 032 072 181	
OSAKI	100		181 185 217		185	
OSIO OSIME	154	SAISHO	001 048 074 082	TELEFUNKEN	022 030 035 062	
OSUME OTTO VERSAND	016 016 047 061 102		130 131 133 178		072 080 177 181	
OTTO VERSAND	105 243 244 245	CALODA	094 232	TELETECU	186 217 223	
P.T ACTRON	109	SALORA	031 073 105 126 132 135 138 147	TELETECH TELETON	194 235	
PAEL	048 073		152 171 184 208	TELEVIDEON	048 073 102 111	
PANASONIC	014 031 037 083	SAMBERS	043 044 066 073		147	
	097 102 134 136		118 154	TENSAI	048 061	
PATHE'CINEMA	148 150 048 111 119 167	SAMP0	134			
TATTIL CINEMA	040 III II7 I0/					
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DDAND	CODE		CODES	DD AND	CODE
	CODE	DEGRAAF	ODE 017 020 041 052	MITSUBISHI	050 056 080 127
TV contin		DEURAAF	057	MTC	041 045
THOMSON	006 008 015 027	DUAL	047 094	MULTITECH	023 031 041
	032 072 181 185 217 229 233	DUMONT	017 041 057	MURPHY	041
THORN	101 157 221	DYNATECH Elbe	041 038	NAONIS NATIONAL	047 048 094 111
THORN-FERGUSON	030 071 072 074	EMERSON	013 034 041 064	NEC	038 047 050 094
	078 080 101 119		066 077	NECKERMANN	013 047 094 113
TOSHIBA	157 177 016 085 127 140	FERGUSON	005 047 087 089	NOBLIKO	113
TOSHIDA	146 204		094 098 104 108 112 126 132	NOGAMATIC NOKIA	047 048 094 017 021 047 048
TRANS CONTINENS	042 044 073 170	FIDELITY	041	NOKIA	088 094 107 110
TRIUMPH	001 234	FINLANDIA	017 057	NORDMENDE	001 009 012 016
UHER	067 078 111 147 235 241	FINLUX	017 020 041 057		018 022 024 025
ULTRAVOX	042 043 045 048	FISHER Funai	010 017 021 036 041		039 047 048 094 099 101 105 106
	063 102 132	GBC	097	OPTONICA	052 053
UNIVERSUM	018 074 154 201	GE	064 066	ORION	013 033 034 035
IIIIII O	234 244 245 247	GELOSO	097		063 077 082
UNIVOX UTAX	119 048	GOLDSTAR	058	OSAKI	041 058
VEGAVOX	162	GOODMANS	031 041 045 053	PANASONIC	019 075 092 093
VESTEL	124	GRAETZ	057 058 065 077 047 048 088 094	PATHE'MARCONI	111 047 048 094
VICTOR	173	UKALIZ	110	PENTAX	020 027
VOXSON	063 170	GRANADA	017 021 057 113	PERDIO	041
WATSON	111 243 244 245		129	PHILIPS	006 044 046 049
WATT RADIO	043 048 066 102 119 149	GRUNDIG	057 090 095 101		052 053 057 069
WEGA	016	HIFIVOX	102 103 113 047 048 094	PHONOLA	083 086 052 057 086 095
WEGA COLOR	086	HINARI	013 031 076 077	FIIONOLA	113
WHITE WESTINGSE.		THINAIG.	082 097 116 121	PIONEER	050 057 117
YOKO	048		125	PRANDONI-PRINCE	065
ZANUSSI	034 038 069 077 108 137 170 235	HITACHI	020 027 041 047	PROLINE	041
ZOPPAS	034 038 069 077	IMPERIAL	078 091 041 100	PYE	052 057 086 095 113
	108 170	INGELEN	047 048 094 110	QUARTZ	021
		INGERSOL	082	QUELLE	013 051 102 113
VCR		INNO HIT	097	RADIOLA	052 095 113
AKAI	030 037 047 074	IΠ	021 047 088 107	RCA	064 066
	094 096 107 128	ITT-NOKIA Jensen	047 048 094 110 047	REALISTIC	010 017 021 041 045 052 053
AKURA	031 116	JVC	001 009 012 047	REX	001 047 048 094
ALBA	031 065 077 118 123 124 125		048 050 089 094	ROADSTAR	031 045 058
AMSTRAD	041		116 119	SABA	001 009 014 015
ANITSCH	032	KENWOOD	021 047 050 116		016 018 024 025 047 048
ARC EN CIEL	047 048 094	KRIESLER Lloyd	052 095 113 041	SAISHO	013 034 077 082
ARISTONA	052 095 113	LOEWE	069	SAISTIG	091 118
ASA AIWA	057 058 041 047 058 077	LOEWE OPTA	057 086 095 113	SALORA	021 056 129
AIWA	116 120 125	LOGIK	031 045 077 082	SAMSUNG	045 059 061 064
BAIRD	047 107	LUVOD	107		066 070 071 096
BASICLINE	031 065 077	LUXOR LXI	107 110 058	SANSUI	100 047 050
BLAUPUNKT	029 090 095 102	MAGNASONIC	110	SANYO	010 017 021 042
BRANDT ELECTRON.	111 113	MAGNAVOX	064 066		077 110 131
BUSH	030 031 065 077	MARANTZ	053 057 077 095	SBR	057 083 086
	123 124 125	MATCHI	113 115	SCHAUB LORENZ	047 048 088 094
CAPEHART	065	MATSUI	013 034 045 058 077 082 118 112	SCHNEIDER	110 031 041 052 095
CGE	041 047 094		125	JCHINLIDLK	100 113
CONTINENTAL ED.	047 048 094 010 045	MEMOREX	010 017 021 041	SEG	100
CURTISMATHES	064 066		052 058	SEI-SINUDYNE	082
DAEW00	011 065 067 068	METZ	095 102 109 113	SELECO	047 048 094
	072 073	MGA Minerva	056 090 102 113	SENTRA Sharp	065 052 053 062 079
DAYTRON	065	MINOLTA	020 027	SHINTOM	031
DECCA	041 047				

DEVICE CODES						
BRAND	CODE	BRAND	CODE	BRAND	CODE	
VCR cor	ntinued		134 136 139	SATPROTNER	096	
SIEMENS	090 095 102 110	FINLUX	013 014	SCHAUB LORENZ	110 121	
SILMENS	113	FRACARRO FTE	070 109 100	SCHNEIDER SENTRA	068 045	
SIERA	052 095 113	FUBA	018	SIEMENS	046 112	
SINUDYNE	082	GALAXIS	157	SIERA	068	
SONY	051 054 055 081	GIUCAR RECORD	011 111	SILVA	096	
CTERN	085	GOLDSTAR	096 135	SINTRACK	017	
STERN STS	047 048 094 020	GOODMANS	139	SKY	151	
SUNKAI	077	GRAETZ	110 121	STARSAT	100	
SYLVANIA	041 056	GRANADA Grundig	121 046 068 083 112	STELLA STRONG	051 029 078	
SYMPHONIC	041 056	OKUNDIO	150 151 155	STV	018	
TASHIKO	041	HIGH PERCE.	107	TANDBERG	012	
TATUNG	041 047	HIRSCHMANN	013 046	TANDY	107	
TEAC	041 047	HITACHI	134 139	TATUNG	041 090	
TEKNIKA Teleavia	041 047 048 094	HYUNDAY	158	TECHNISAT	009 010 033 106	
TELEFUNKEN	009 018 026 028	INGELEN	110 121	TF1 F	127 129	
I LLLI ONKLIN	040 047 048 094	ITT ITT-NOKIA	085 025 083 110 121	TELE+ TELECOM	159 051	
TENOSAL	031	JEEMON	075	TELECOM	103	
THOMSON	018 022 047 048	JERROLD	056 232	TELEMAX	022	
	094	JOHANSSON	116		027 056 062 067	
THORN	047 089 094 114	KATHREIN	039 100 101 112		068 079 080 083	
THORN-FERGUSON	024 025 047 087 089 094 098 104		113 118 122 138	TPS	161	
	108 112		140 142 146 148	TRIACL	106	
TOSHIBA	011 047 048 056	KRIESLER	068	TRIAD	107 123	
TOSHIDA	084 094	LENCO LUXOR	096 053 110 117 121	VIDEO WAY	074 091 092 100 019	
TOTEVISION	045	MACAB	106	VISIOPASS	201	
UHER	047 100	MAGAI	100	VORTEC	102 103	
UNITECH	045	MANHATTAN	075 134 139 144	WINERSAT	116	
VICTOR	047 050	MARANTZ	039	WISI	008 026 031 032	
WARDS YAMAHA	064 066 047	MASPRO	063 068 115 118	WOLCEN	060	
ZANUSSI	047 048 094	MATSUI	134 136 141 149 024 137 147	WOLSEY ZEHNDER	107 100	
ZOPPAS	047 048	METZ	112	ZENITH	054	
		MINERVA	112		031	
SAT/C1	IV	M.N.E.T.	155			
AKAI	039	MULTISTAR	100			
ALBA	021 028 071 086	NEC	035 044 089			
	139 143 145 148	NEIRU Nokia	096 110 121 133 151			
AMSTRAD	087 119 151	NORSAT	057			
ANKARO	066	PACE	015 068 080 083			
ARCON ARISTONA	096 068		151 154			
ARTHUR MARTIN	117	PACE MSS SERIES	083			
ASTRA	084 120	PALCOM	114			
BARCOM	066	PALSAT	029			
BLAUPUNKT	046	PANASAT PANASONIC	155 036 151			
BT SATELLITE	147	PHILIPS	023 038 039 151			
BUSH	028 062 068 071	PHONOLA	068			
CAMBRIDGE	086 093 134 076 131	PIONEER	151			
CANAL PLUS	160	PROSAT	071			
CHAPARRAL	016	PYE	068			
CONNEXIONS	047 052 118	QUELLE	112			
DISKXPRESS	047 066	RADIOLA RADIX	068 060			
DRAKE	034 048 054 077	RC-1000	131 132			
ECHOCTAD	095	REDIFFUSION	044 057			
ECHOSTAR	020 025 060 065 081 082 088 108	SAKURA	069 072			
ELTASAT	075	SALORA	040 084 110 117			
EMME ESSE	156	CANCINO	121			
FERGUSON	056 062 067 068	SAMSUNG SATECO	100 021			
	079 080 083 093	JAILLU	UZI			
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